

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

Oron YACOBY-ZEEVI et al.

Serial No.: 10/645,659

Filed: August 22, 2003

For: Heparanase Activity Neutralizing Anti-Heparanase
Monoclonal Antibody And Other Anti-Heparanase
Antibodies

Group Art Unit: 1644

Examiner: DIBRINO, MARIANNE NMN

Attorney
Docket: 26128

Mail Stop Amendement

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

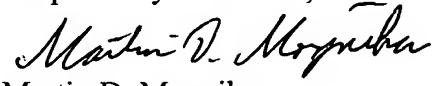
Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This is a continuation in part of U.S. Patent Application No. 10/368,044, filed February 19, 2003, which also claims priority as a continuation from U.S. Patent Application No. 09/186,200, filed November 4, 1998, now U.S. Patent No. 6,562,950, issued May 13, 2003, which is a continuation-in-part of U.S. Patent Application No. 09/071,739, filed May 1, 1998, now U.S. Patent No. 6,177,545, issued January 23, 2001, which is a continuation-in-part of U.S. Patent Application No. 08/922,170, filed September 2, 1997, now U.S. Patent No. 5,968,822, issued October 19, 1999. This application also claims priority from U.S. Patent Application No. 10/456,573, filed June 9, 2003, which is a continuation-in-part of U.S. Patent Application No. 09/435,739, filed November 8, 1999, which is a continuation of U.S. Patent Application No. 09/258,892, filed March 1, 1999, now expired, which is a continuation-in-part of PCT Application No. PCT/US98/17954, filed August 31, 1998, now expired. All of these applications are hereby incorporated by reference as if fully set forth herein.

This Supplemental Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,



Martin D. Moynihan
Registration No. 40,338

Dated: December 31, 2006



Sheet 1 of 3

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)	Atty. Docket No. 910/12	Application No. 09/186,200
	APPLICANT Tuvia PERETZ et al	
	Filing Date	Group Art Unit

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
AB							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4:793-801, 1992 <i>also 2-437</i>
AD	Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions and Role in Physiological Processes", <i>Physiol. Rev.</i> , 71:481-539, 1991 <i>2-437</i>
AE	Wight et al, "Cell Biology Of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989
AF	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991
AG	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991
AH	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes and Plasma Proteins" In <i>Basement Membranes: Cellular and Molecular Aspects</i> (eds. Rohrbach and Timpl), Academic Press, Inc., Orlando, Fla., 327-343, 1993
AI	Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion & Metastasis</i> , 12: 112-127, 1992
AJ	Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion & Metastasis</i> , 14: 290-302, 1995
AK	Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36: 157-167, 1988
AL	Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Lab. Invest.</i> , 49: 639-649, 1983
AM	Vlodavsky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix", <i>Cancer Res.</i> , 43: 2704-2711, 1983
AN	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Int. J. Med.</i> , 24: 464-470, 1988

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Atty. Docket No. 910/12	Application No. 09/186,200
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Tuvia PERETZ et al	
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BA							

FOREIGN PATENT DOCUMENTS

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BB							YES
							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	✓ Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor Cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-517, 1987
BD	✓ Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix vs. Plastic", <i>Cell</i> , 19: 607-616, 1980
BE	✓ Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991
BF	✓ Campbell et al, "Heparan Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167, 1992
BG	✓ Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Heparinoid Inhibitors of T Lymphocyte Heparanase", <i>J. Clin. Invest.</i> , 83: 752-756, 1989
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BI	✓ Goldberg et al, "An Improved Method for Determining Proteoglycans synthesized by Chondrocytes in Culture", <i>Connective Tissue Res.</i> , 24: 265-275, 1990
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BM	✓ Wong, JF, "Monoclonal Antibodies: Therapeutic Applications Grow in Promise and Number", <i>Genetic Engineering News</i> , July, 1998, pp 23, 49

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Form PTO-1449 (Modified)		Atty. Docket No. 910/12	Application No. 03/186,200
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CJ							

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						YES	NO
CH							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CI	Sherman-Gold, R., "Monoclonal Antibodies: The Evolution from '80s Magic bullets to Mature, Mainstream Applications as Clinical Therapeutics", <i>Genetic Engineering News</i> , August, 1997, pp 4, 35
CJ	Danheiser, SL, "Rituxin Leads Line Of Hopeful Mab Therapies, yet FDA still has Bulk Manufacture Concerns", <i>Genetic Engineering News</i> , October, 1997, pp 1,6,33,38
CK	Rader et al, A Phage Display Approach for Rapid Antibody Humanization: Designed Combinatorial V Gene Libraries", <i>Proc. Natl. Acad. Sci.</i> , 95: 8910-8915, 1998
CL	Mateo et al, "Humanization of a Mouse Monoclonal Antibody that Blocks the Epidermal Growth Factor Receptor: Recovery Antagonistic Activity", <i>Imunotechnology</i> , 3: 71-81, 1997
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CN	
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Substitute for form 1449A/PTO

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(use as many sheets as necessary)

Complete if Known

Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	1	of	23	Attorney Docket Number	26128
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
1	US-5,997,863	07-7-1999	Zimmermann et al.		
2	US-5,688,679	11-18-1997	Powell		
3	US-6,387,643	05-14-2002	Heinrikson et al.		
4	US-6,423,312	07-23-2002	Yacoby-Zeevi		
5	US-6,531,129	03-11-2003	Pecker et al.		
6	US-4,455,296	06-19-1984	Hansen et al.		
7	US-5,571,506	05-5-1996	Regan et al.		
8	US-5,917,830	06-29-1999	Chen et al.		
9	US-5,859,660	01-12-1999	Perkins et al.		
10	US-5,600,366	04-4-1997	Schulman		
11	US-6,020,931	01-1-2000	Bilbrey et al.		
12	US-6,153,187	11-28-2000	Yacoby-Zeevi		
13	US-5,145,679	08-8-1992	Hinson		
14	US-5,736,137	07-7-1998	Anderson et al.		
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23	US-4,683,195	07-28-1987	Mullis et al.		
24	US-5,602,095	02-11-1997	Pastan et al.		
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31	US-6,314,420	06-6-2001	Lang et al.		
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33	US-6,307,965	10-23-2001	Aggarwal et al.		
34	US-6,226,792	01-1-2001	Goiffon et al.		
35	US-5,859,929	01-12-1999	Zhou et al.		
36	US-5,799,276	08-25-1998	Komissarchik et al.		
37	US-2002/0068061	06-6-2002	Peretz et al.		

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DISCLOSURE
STATEMENT BY APPLICANT**

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				Complete if Known	
Application Number	10/645,659				
Filing Date	August 22, 2003				
First Named Inventor	Oron YACOBY-ZEEVI et al				
Art Unit	1644				
Examiner Name	DIBRINO, MARIANNE NMN				

Sheet	2	of	23	Attorney Docket Number	26128
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
38	US-5,360,735	01-1-1994		Weinshank et al.	
39	US-2002/0088019	04-4-2002		Yacoby-Zeevi	
40	US-5,589,604	12-31-1996		Drohan et al.	
41	US-5,700,671	12-23-1997		Prieto et al.	
42	US-5,714,345	03-3-1998		Clark	
43	US-5,716,817	02-10-1998		T?rnell	
44	US-6,140,552	10-31-2000		Deboer et al.	
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46	US-2002/0194625	12-19-2002		Zcharia et al.	
47	US-6,190,875	02-20-2001		Ben-Artzi et al.	
48	US-2001/0006630	05-5-2001		Yacobi-Zeevi et al.	
49	US-2002/0114801	08-22-2002		Pecker et al.	
50	US-6,475,763	05-5-2002		Ayal-Hershkovitz et al.	
51	US-6,426,209	07-30-2002		Ayal-Hershkovitz et al.	
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54	US-2003/0031660	02-13-2003		Yacobi-Zeevi et al.	
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Sheet	3	of	23	Attorney Docket Number	26128
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
67		PCT WO 95/04158	09-9-1995	Hoogewerf et al.		
68		PCT WO 99/21975	06-6-1999	Freeman et al.		
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74		PCT WO 91/02977	07-7-1991	Fuks et al.		
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81		EP 0254067	01-27-1988	Cohen et al.		
82		PCT WO 98/03638	01-29-1998	Freeman et al.		
83		PCT WO 01/00643	04-4-2001	Pecker et al.		
84		PCT WO 99/48478	09-30-1999	Yacoby-Zeevi		
85		PCT WO 00/03036	01-20-2000	Ben-Artzi et al.		
86		PCT WO 00/25817	05-11-2000	Peretz et al.		
87		PCT WO 92/01003	01-23-1992	Nicolson et al.		
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94		PCT WO 88/01280	02-25-1988	Nicolson et al.		

Examiner Signature	Date Considered
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Sheet	4	of	23	Attorney Docket Number	26128
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	95	Vlodavsky et al. "Morphological Appearance, Growth Behaviour and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix Versus Plastic", Cell, 19: 607-616, 1980.			
	96	Miao et al. "Modulation of Fibroblast Growth Factor-2 Receptor Binding Dimerization, Signaling, and Angiogenic Activity by A Synthetic Heparin-Mimicking Polyaromatic Compound", J. Clin. Invest., 99(7): 1565-1575, 1997.			
	97	Raghunath et al. "Cultured Epithelial Autografts: Diving From Surgery Into Matrix Biology", Pediatr. Surg. Int., 12(7): 478-483, 1997. Abstract.			
	98	Maillard et al. "Pre-Treatment With Elastase Improves the Efficiency of Percutaneous Adenovirus-Mediated Gene Transfer to the Arterial Media", Gene Therapy, 5: 1023-1030, 1998.			
	99	Wang "Basic Fibroblast Growth Factor for Stimulation of Bone Formation in Osteoinductive or Conductive Implants", Acta Orthop. Scand. Suppl., 269: 1-33, 1996. Abstract.			
	100	Wang "Basic Fibroblast Growth Factor Infused at Different Times During Bone Graft Incorporation. Titanium Chamber Study in Rats", Acta Orthop. Scand., 67(3): 229-236, 1996. Abstract.			
	101	Aspberg et al. "Fibroblast Growth Factor Stimulates Bone Formation. Bone Induction Studied in Rats", Acta Orthop. Scand., 60(4): 473-476, 1989. Abstract.			
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Application Number		10/645,659
Filing Date		August 22, 2003
First Named Inventor		Oron YACOBY-ZEEVI et al
Group Art Unit		1644
Examiner Name		DIBRINO, MARIANNE NMN

Sheet	5	of	23	Attorney Docket Number	26128
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Filing Date	August 22, 2003
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Examiner Name	DIBRINO, MARIANNE NMN

Sheet	6	of	23	Attorney Docket Number	26128
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First Named Inventor		Oron YACOBY-ZEEVI et al
Group Art Unit		1644
Examiner Name		DIBRINO, MARIANNE NMN

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	152	Pier et al. "Cystic Fibrosis Transmembrane Conductance Regulator Is An Epithelial Cell Receptor for Clearance of Pseudomonas Aeruginosa From the Lung", Proc. Natl. Acad. Sci. USA, 94(22): 12088-12093, 1997.			
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	176	Rahmoune et al. "Chondroitin Sulfate in Sputum From Patients With Cystic Fibrosis and Chronic Bronchitis", Am. J. Resp. Cell & Mol. Biol., 5(4): 315-320, 1991. Abstract.	
	177	Beuth et al. "Lectin-Mediated Bacterial Adhesion to Human Tissue", Eur. J. Clin. Microbiol., 6(5): 591-593, 1987. Abstract.	
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DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	11	of	23	Attorney Docket Number	26128
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	191	Hillier et al. "The WashU-Merck EST Project", No. N30845, Database GenBank on STN, US National Library of Medicine (Bethesda MD), 1996.	
	192	Konstan et al. "Current Understanding of the Inflammatory Process in Cystic Fibrosis", Pediatric Pulmonology, 24: 137-142, 1997.	
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Sheet	12	of	23	Attorney Docket Number	26128
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Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	13	of	23	Attorney Docket Number	26128
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	14	of	23	Attorney Docket Number	26128
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	236	Loredo et al. "Regulation of Glycosaminoglycan Metabolism by Bone Morphogenetic Protein-2 in Equine Cartilage Explant Cultures", Am. J. Vet. Res., 57(4): 554-559, 1996.	
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Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	16	of	23	Attorney Docket Number	26128
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Sheet	17	of	23	Attorney Docket Number	26128
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Sheet	18	of	23	Attorney Docket Number	26128
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Examiner Name	DIBRINO, MARIANNE NMN

Sheet	19	of	23	Attorney Docket Number	26128
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**SUPPLEMENTAL INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/645,659
Filing Date	August 22, 2003
First Named Inventor	Oron YACOBY-ZEEVI et al
Group Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN

Sheet	22	of	23	Attorney Docket Number	26128
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	²
	352	Linhardt et al. "Polysaccharide Lyases", Applied Biochemistry and Biotechnology, 12: 135-176, 1986.	
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	363	Murray et al. "The Extracellular Matrix", Harper's Biochemistry, McGraw-Hill Professional, 24th Ed., Chap.57, P.667-685, 1998.	
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	365	Prockop "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", Science, 276: 71-74, 1997.	
	366	Pomahac et al. "Tissue Engineering of Skin", Crit. Rev. Oral Biol. Med., 9(3): 333-344, 1998. Abstract.	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 Of 2 Attorney Docket Number 25677

FOREIGN PATENT DOCUMENTS

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known	
Application Number	10/456,573
Filing Date	06/09/2003
First Named Inventor	Iris PECKER
Group Art Unit	1646
Examiner Name	

Sheet	2	Of	2	Attorney Docket Number	25677
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		Vlodavsky et al, "Inhibition of tumor metastasis by heparanase inhibiting species of heparin", <i>Invasion Metastasis</i> . 1994-95;14(1-6):290-302 (abstract)			
		Parish et al, "Evidence that sulphated poly-accharides inhibit tumour metastasis by blocking tumour-cell-derived heparanases". <i>Int J Cancer</i> . 1987 Oct 15;40(4):511-8.			
		Lider et al, "Suppression of experimental autoimmune diseases and prolongation of allograft survival by treatment of animals with low doses of heparins", <i>J Clin Invest</i> . 1989 Mar;83(3):752-6.			
		Gewirtz et al, "Nucleic acid therapeutics: state of the art and future prospects", <i>Blood</i> . 1998 Aug 1:92(3):712-36.			
		Hida et al, "Antisense E1AF transfection restraints oral cancer invasion by reducing matrix metalloproteinase activities", <i>Am J Pathol</i> . 1997 Jun;150(6):2125-32 (abstract)			
		Thuong et al, "Sequence-specific recognition and modification of double-helical DNA by oligonucleotides", <i>Angew. Chem. Int. Ed. Engl.</i> , 32:666-690, 1993			
		Cohen, JS, "Oligonucleotide therapeutics", <i>Trends Biotechnol</i> , 10(3):87-91, 1992 (abstract)			
		Szczylik et al, "Selective inhibition of leukemia cell proliferation by BCR-ABL antisense oligodeoxynucleotides", <i>Science</i> . 1991 Aug 2:253(5019):562-5. (abstract)			
		Calabretta et al, "Normal and leukemic hematopoietic cells manifest differential sensitivity to inhibitory effects of c-myb antisense oligodeoxynucleotides: an in vitro study relevant to bone marrow purging", <i>Proc Natl Acad Sci U S A</i> . 1991 Mar 15;88(6):2351-5.			
		Burch et al, "Oligonucleotides antisense to the interleukin 1 receptor mRNA block the effects of interleukin 1 in cultured murine and human fibroblasts and in mice", <i>J Clin Invest</i> . 1991 Aug 1:88(4):1190-1196. 1991 (abstract)			
		Agrawal S., "Antisense oligonucleotides as antiviral agents", <i>Trends Biotechnol</i> , 10(5):152-158, 1992, (abstract)			
		Uno et al, "Antisense-mediated suppression of human heparanase gene expression inhibits pleural dissemination of human cancer cells", <i>Cancer Res</i> . 2001 Nov 1:61(21):7855-60.			
Examiner Signature				Date Considered	

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

²Unique citation designation number. ³Applicant is to place a check mark here if English language Translation is attached.

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Form PTO-1449 (Modified)

Sheet 1 of 4

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)

Atty. Docket No. 910/1	Application No. 08/922,170
	Applicant: Iris PECKER et al
	Filing Date: September 2, 1997

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SEP 18 1998
GROUP 1652
1998

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	100- CLASS	FILING DATE
AA	RP	5,362,641	Nov 94	Fuks et al	435	205	
AB	RP	5,571,506	Nov 96	Regan et al	424	78,17	
AC							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER		DATE		TRANSLATION		
							YES	NO
AD	RP	WO 9504518	Jul 94	PCT	—	—		
AE								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AF	RP	Goshen et al, "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Molecular Human Reproduction</i> , 2(9): 679-684, 1996
AG	RP	Bar-Ner et al, "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparan Sulphate by Non-anticoagulant Heparin Species", <i>Blood</i> , 70(2): 551-557, 1987
AH	RP	Savitsky et al, "Ataxia-Telangiectasia: Structural Diversity of Untranslated Sequences Suggests Complex Post-Transcriptional Regulation of ATM Gene Expression", <i>Nucleic Acids Research</i> , 25(9): 1678-1684 (1997)
AI	RP	Haimovitz-Friedman et al, "Activation of Platelet Heparanase by Tumor Cell Derived Factors", <i>Blood</i> , 78: 789-796, 1991
AJ	RP	Gospodarowicz et al, "Stimulation of Corneal Endothelial Cell Proliferation <i>in vitro</i> by Fibroblast and Epidermal Growth Factors", <i>Exp. Eye Res.</i> , 25: 75-89, 1977
AK	RP	Ernst et al, "Enzymatic degradation of Glycosaminoglycans", <i>Crit. Rev. In Biochem. & Molec. Biology</i> , 30(5): 387-444, 1995
AL	RP	Zhong-Sheng et al, "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-enriched Remnant Lipoproteins by Cultured Cells", <i>J. Biol. Chem.</i> , 268(14): 10160-10167, 1993
AM	RP	R. Ross, "The Pathogenesis of Atherosclerosis: A Perspective for the 1990s", <i>Nature</i> , 362: 801-809, (1993)
AN	RP	1993 Putnak et al, "A Putative Cellular Receptor for Dengue Viruses", <i>Nature Medicine</i> , 3(8): 828-829, 1997
AO	RP	Cordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63(6): 832-840, 1990

EXAMINER Rebecca Prouty DATE CONSIDERED 7-21-98

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)			Atty. Docket No. 910/1	Application No. 08/922 170			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Iris PECKER et al				
			Filing Date: September 2, 1997	Group No. 1652			
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BB							YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BC	RP	Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's β -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J. Biol. Chem.</i> , 266(20): 12878-12883, 1991					
BD	RP	Chen et al, "Dengue Virus Infectivity Depends on Envelope Protein B1 to Target Cell Heparan Sulfate", <i>Nature Medicine</i> , 3(8): 866-871, 1997					
BE	RP	Shieh et al, "Cell Surface Receptors for Herpes Simplex Virus are Heparan Sulfate Proteoglycan Proteoglycans", <i>J. Cell Biol.</i> , 116(5): 1273-1281, 1992					
BF	RP	Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surfaces and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90: 2013-2021, 1992					
BG	RP	Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252: 1705-1708, 1991					
BH	RP	Lider et al, "A Disaccharide that Inhibits Tumor Necrosis Factor α is Formed from the Extracellular Matrix by the Enzyme Heparanase", <i>Proc. Natl. Acad. Sci. USA</i> , 92:5037-5041, 1995					
BI	RP	Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Low Doses of Heparins", <i>J. Clin. Invest.</i> , 83: 752-756, 1989					
BJ	RP	Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-associated Heparin-like Molecules", <i>J. Biol. Chem.</i> , 267(9): 6093-6098, 1992					
BK	RP	Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparin Derived Di- and Trisaccharides", <i>Science</i> , 268: 432-436, 1995.					
BL	RP	Spivak-Kroizman et al, "Heparin-Induced Oligomerization of FGF Molecules is Responsible for FGF Receptor Dimerization, Activation, and Cell Proliferation", <i>Cell</i> , 79: 1015-1024, 1994					
BM	RP	Yayon et al, "Cell Surface Heparin-Like Molecules are required for Binding of Basic Fibroblast Growth Factor to its High Affinity Receptor", <i>Cell</i> , 64: 841-848, 1991					
BN							
EXAMINER <i>Rebecca Prouty</i>			DATE CONSIDERED <i>7-21-18</i>				
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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GROUP 1800

Form PTO-1449 (Modified)		Atty. Docket No. 910/1	Applicant No. 08/922,170
INFORMATION DISCLOSURE CITATION IN AN APPLICATION. (USE SEVERAL SHEETS IF NECESSARY)		RECEIVED FEB 26 1998 GROUP 1800 1652	
		Filing Date: September 2, 1997	Group Art Unit:

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CB							YES
							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	RP	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasminogen Proteins", Basic Membranes: Cellular and Molecular Aspects (eds. Rohrbach & Timpl) pp 327-343, Academic Press, Orlando, Fla., 1993
CD	RP	Vlodavsky et al, "Extracellular Sequestration and release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991
CE	RP	Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils, and Lymphoma Cells releases Active Fibroblast Growth Factor from Extracellular Matrix", <i>Cell Regulation</i> , 1: 833-842, 1990
CF	RP	Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31(7): 2080-2088, 1992
CG	RP	Folkman et al, "A Heparin-Binding Angiogenic Protein - Basic Fibroblast Growth Factor - is Stored Within Basement Membrane", <i>Am. J. Pathology</i> , 130(2): 393-400, 1988
CH	RP	Vlodavsky et al, "Endothelial Cell-Derived Basic Fibroblast Growth Factor: Synthesis and Deposition into Subendothelial Extracellular Matrix", <i>Proc. Natl. Acad. Sci. USA</i> , 84: 2292-2296, 1987
CI	RP	Folkman et al, "Angiogenic Factors", <i>Science</i> , 235: 442-447, 1987
CJ	RP	Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58:575-606, 1989
CK	RP	Vlodavsky et al, "Involvement of the Extracellular Matrix, Heparin Sulfate Proteoglycans, and Heparin Sulfate Degrading Enzymes in Angiogenesis and Metastasis", In: <i>Tumor Angiogenesis</i> , Eds. Lewis et al, Oxford Univ. Press, pp 125-140, 1997
CL	RP	Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor-Cell-Derived Heparanases", <i>Int. J. Cancer</i> , 40: 511-518, 1987
CM	RP	Bashkin et al, "Basic Fibroblast Growth Factor Binds to Subendothelial Extracellular Matrix and is Released by Heparanase and Heparin-Like Molecules", <i>Biochemistry</i> , 28:1737-1743, 1989
CN		

EXAMINER	Rebecca Party	DATE CONSIDERED	7-21-98
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Form PTO-1449 (Modified)			Atty. Docket No. 910/1	Application No. 08/415,700			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Iris PECKER et al	RECEIVED FEB 9 1998 GPO 440-1800 16:2			
			Filing Date: September 2, 1997	Group 1B Unit 1800			
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DB							YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DC	RP	Gospodarowicz et al, "Permissive effect of the ExtraCellular Matrix on Cell Proliferation <i>in vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77(7): 4094-4098, 1980					
DD	RP	Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on ExtraCellular Matrix Versus Plastic", <i>Cell</i> , 19: 607-616, 1980					
DE	RP	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Israel J. Med. Sci.</i> , 24: 464-470, 1988					
DF	RP	Vlodavsky et al, "Lymphoma Cell-mediated Degradation of Sulfated Proteoglycan in the Subendothelial ExtraCellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Research</i> , 43: 2704-2711, 1983					
DG	RP	Liotta et al, "Tumor Invasion and the ExtraCellular Matrix", <i>Lab. Inv.</i> , 49(6): 636-649, 1983					
DH	RP	Nicolson, G.L., "Organ Specificity of Tumor Metastasis: Role of Preferential Adhesion, Invasion and Growth of Malignant Cells at Specific Secondary Sites", <i>Cancer Met. Rev.</i> , 7: 143-188, 1988					
DI	RP	Nakajima et al, "Heparanases and Tumor Metastasis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988					
DJ	RP	Vlodavsky et al, "Inhibition of Tumor Metastasis Inhibiting Species of Heparin", <i>Inv. Metast.</i> , 14: 290-302, 1994					
	RP	Vlodavsky et al, "Expression of Heparanases by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Inv. Metast.</i> , 12: 112-127, 1992					
	RP	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991					
	RP	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 50: 443-475, 1991					
	RP	Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9: 1-20, 1989					
	RP	Jackson, et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev.</i> , 71(2): 481-539, 1991					
	RP	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4: 793-801, 1992					
EXAMINER	Rebecca Ponty			DATE CONSIDERED	1-21-98		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



Form P-10-1449 (Modified)

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Atty Docket No.
910/5

Application No.
09/071,739

Applicant:
Iris PECKER et al

REF ID: IV-6

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APPENDIX TENT DOCUMENTS

NAME _____

PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	MD	Wight et al, "The Role of Proteoglycans in Cell Adhesion, migration and Proliferation", <i>Current Opinion in Cell Biology</i> , 1992, 4:793-801
AD	MD	Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Reviews</i> , 71(2):481-539, 1991
AE	MD	Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989
AF	MD	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991
AG	MD	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64:867-869, 1991
AH	MD	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes and Plasma Protein", in <i>Basement Membranes: Cellular and Molecular Aspects</i> (eds. Rohrbach et al) pp 327-343, Academic Press Inc., Orlando, Fla.
AI	MD	Vlodavsky et al, "Expression of Heparanases by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion & Metastasis</i> , 12: 112-127, 1992
AJ	MD	Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion & Metastasis</i> , 14: 290-302, 1995
AK	MD	Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988
AL	MD	Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Lab. Invest.</i> , 49: 630-647, 1983
AM	MD	Vlodavsky et al, "Lymphoma Cells Mediate Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res.</i> , 43: 2704-2711, 1983
AN	MD	Parish et al, "Evidence that Sulphated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-518, 1987
AO	MD	Vlodavsky et al, "Morphological Appearance, Growth behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix vs. Plastic", <i>Cell</i> , 19: 607-616, 1980
AP		

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Atty. Docket No.
910/5Application No.
09/071,739INFORMATION DISCLOSURE CITATION
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JENS PECKER et alFiled Date:
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	TRANSLATION
BA						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
						YES
						NO
B						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BCC	MD	Gospodarowicz et al, "Permissive Effect of the Extracellular Matrix on Cell Proliferation <i>in-vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77:4094-4098, 1980
BD	MD	Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58: 575-606, 1989
BE	MD	Folkman et al, "Angiogenic Factors", <i>Science</i> , 231: 442-447, 1987
BF	MD	Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: a Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 832-840, 1991
BG	MD	Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils and Lymphoma Cells Releases Active Fibroblast Growth Factor from Extracellular Matrix", <i>Cell Reg.</i> , 1: 833-842, 1990
BH	MD	Campbell et al, "Heparin Sulphate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167 (1992)
BP	MD	Oosta et al, "Purification and Properties of Human Platelet Heparitinase", <i>J. Biol. Chem.</i> , 257: 11,249 - 11,255, 1982
BJ	MD	Hoogewerf et al, "CXC Chemokines Connective Tissue Activating peptide-III and neutrophil Activating peptide -2 are Heparin/Heparan Sulfate-Degrading Enzymes", <i>J. Biol. Chem.</i> , 270: 3268-3277, 1995
BK	MD	Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissue", <i>Lab. Invest.</i> , 63(6): 832-840, 1990
BL	MD	Freeman et al, "Human Platelet Heparanase: Purification, Characterization and Catalytic Activity", <i>Biochem. J.</i> , 330: 1341-1350, 1988
BM	MD	Goshen et al, "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Mol. Human Reprod.</i> , 2: 679-684, 1996
BN	MD	Nakajima et al, "Immunochemical Localization of Heparanase in Mouse and Human Melanomas", <i>Int. J. Cancer</i> , 45: 1088-1095, 1990
BO	MD	Molinendo et al, "Major Colocalization of the Extracellular-Matrix Degradative Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem. J.</i> , 327: 917-923, 1997

EXAMINER *Marianne Dib* DATE CONSIDERED *7/13/99*

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Atty. Docket No.
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Application No.

09/071739-1

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